

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. #0011677 **OFFICE** Design Policy & Support
Jackson County
GDOT District 1 - Gainesville **DATE** 4/4/2016
Bridge Replacement: SR 11 at Mulberry
River Tributary 6.3 Miles Southwest of
Jefferson
FROM  Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED LOCATION & DESIGN REPORT

Attached is the approved Location and Design Report with Notice of Location & Design Approval for the above subject project.

Attachment

DISTRIBUTION:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Darryl VanMeter, State Innovative Delivery Engineer
Bobby Hilliard, Program Control Administrator
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Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Andy Casey, State Roadway Design Engineer
Attn: Justin Lott, District Design Engineer
Richard Cobb, Location Bureau Chief
Brent Cook, District Engineer
Brandon Kirby, District Preconstruction Engineer
Kim Coley, District Planning & Programming Engineer
Shannon Giles, Area Engineer - D1, A2
Maria Yanez-Uribe, Project Manager
BOARD MEMBER - 9th Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**INTEROFFICE CORRESPONDENCE
LOCATION AND DESIGN REPORT**

FILE P.I. 0011677
Jackson County
SR 11 @ Mulberry River Tributary
6.3 MI SW of Jefferson

OFFICE Program Delivery

DATE 3/14/2016

FROM Albert V. Shelby, III, State Program Delivery Engineer 

TO Brent Story, P.E., State Design Policy Engineer/Attn: Dave Peters, State Conceptual Design Group Manager

SUBJECT Request for Location and Design Approval

Description and Project Proposal: The proposed project replaces the existing 50 ft. culvert with a 99 ft. culvert. The entire length of the project is 0.227 miles. The existing culvert is a triple box with a width and height of 10 ft. The proposed culvert is a double box that is 10 ft. wide and 12 ft. high per barrel, with 2 ft. of that height being embedded. The existing alignment is to be utilized for final construction. A reduced shoulder width of 8 ft. will be used and a shoulder of 13.5 ft. will be used to accommodate guardrail. An off-site detour will be used to allow the culvert to be replaced with an open cut. The road will continue to be a rural two lane, 55 mph corridor.

Concept Approval Date: June 25, 2014

Concept Update: The proposed culvert dimensions in the above description were updated with a new culvert design from what was in the approved concept report.

Environmental Document:

Document Type: Categorical Exclusion

Approval Date: 03/10/2016

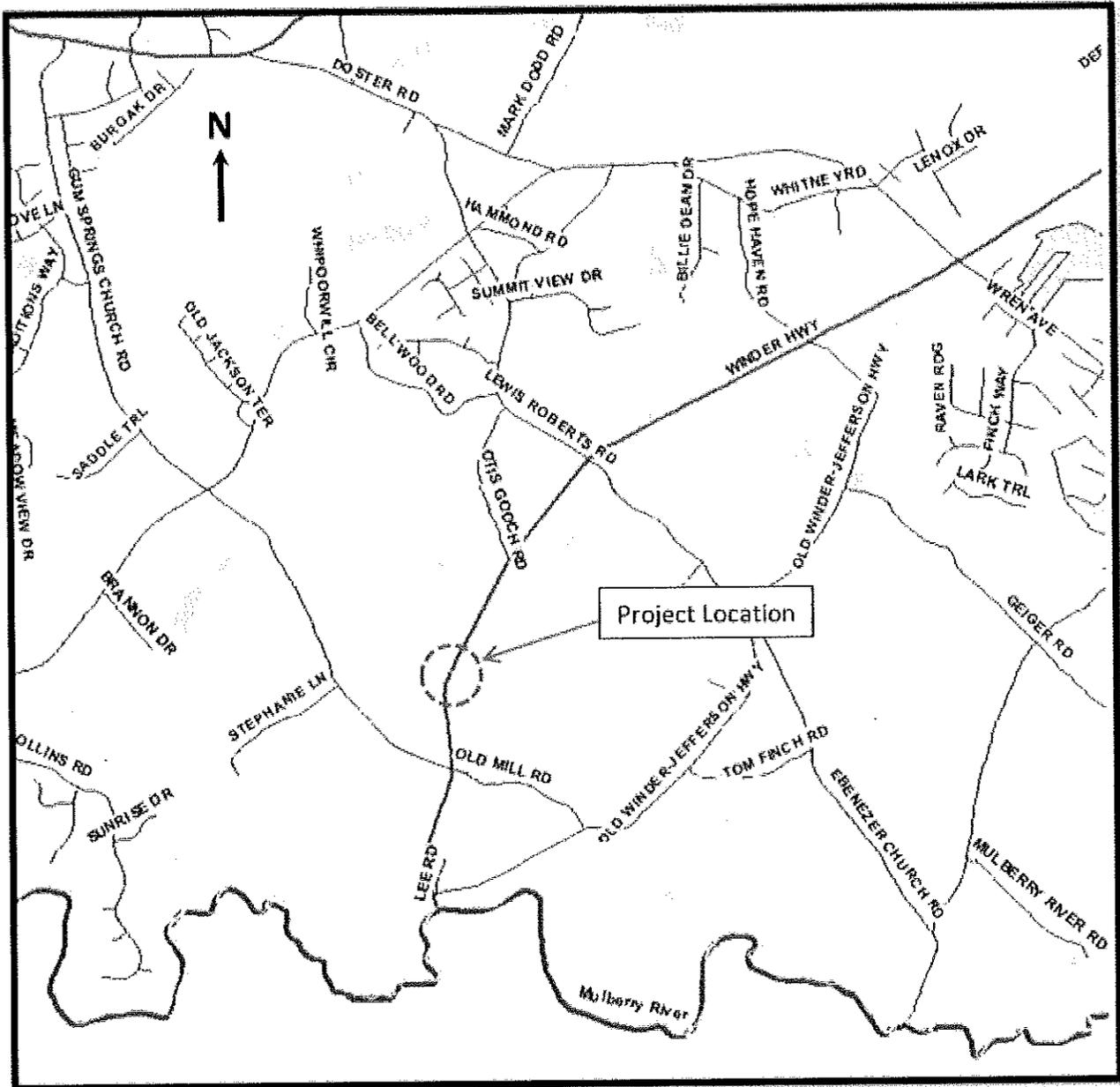
Temporary State Route Needed: No Yes Undetermined

Public Involvement:

Detour Open House summary:

- o Date of Open House: 03/31/2015. Location: The Cornerstone Church, 6933 Georgia Hwy 11, Jefferson, GA.
- o Two comments were received.
- o Of the two respondents who formally commented, both were in support of the project. There were no other respondents, no comments expressing opposition, or who expressed conditional support.
- o A total of 18 people attended the open house. The officials in attendance were: Kevin Poe, County Manager, Terry Turner, Jackson County EMS and Lt. Chris Poe, Jackson County Sherriff's Office.

Consistency with Approved Planning: The design description as presented herein and submitted for approval is consistent with the approved Concept Report.



Project Location Map

Bridge Culvert Replacement on SR 11 at Mulberry River Tributary
Jackson County

NOTICE OF LOCATION AND DESIGN APPROVAL

P. I. 0011677, JACKSON COUNTY

Notice is hereby given in compliance with Georgia Code 22-2-109 and 32-3-5 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location and design approval is: APRIL 4, 2016

The proposed project, SR 11 @ Mulberry River Tributary 6.3 miles SW of Jefferson, Jackson County, replaces the existing 50 ft. culvert with a 99 ft. culvert. The entire length of the project is 0.227 miles. The existing culvert is a triple box with a width and height of 10 ft. The proposed culvert is a double box that is 10 ft. wide and 12 ft. high per barrel, with 2 ft. of that height being embedded. The existing alignment is to be utilized for final construction. A reduced shoulder width of 8 ft. will be used and a shoulder of 13.5 ft. will be used to accommodate guardrail. An off-site detour will be used to allow the culvert to be replaced with an open cut. The road will continue to be a rural two lane, 55 mph corridor. This project is located in Georgia Militia Districts 245 and 248.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Shannon Giles
GDOT District 1, Area 2 Engineer
sgiles@dot.ga.gov
450 Old Hull Road
Athens, GA 30601
(706) 583-2644

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Albert V. Shelby III
GDOT Office of Program Delivery
Attn: *Gabriella Yanez*
myanez-uribe@dot.ga.gov
Georgia Department of Transportation
600 West Peachtree Street, 25th Floor Cubicle 2527
Atlanta, GA 30308
(404) 631-1784

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.

Prepared Date: 2/4/18

DETAILED COST ESTIMATE



Job: 0011677

JOB NUMBER 0011677

FED/STATE PROJECT NUMBER 0011677

SPEC YEAR: 13

DESCRIPTION: SR 11 @ MULBERRY RIVER TRIBUTARY 6.3 MI SW OF JEFFERSON

ITEMS FOR JOB 0011677

0010 - ROADWAY

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|-----------------------|----------|----------|-------|-----------------|---|--------------|
| 0035 | 150-1000 | 1.000 | LS | \$60,000.00000 | TRAFFIC CONTROL - NA | \$60,000.00 |
| 0120 | 153-1300 | 1.000 | EA | \$75,430.18378 | FIELD ENGINEERS OFFICE TP 3 | \$75,430.18 |
| 0040 | 210-0100 | 1.000 | LS | \$122,979.55000 | GRADING COMPLETE - NA | \$122,979.55 |
| 0020 | 310-1101 | 656.000 | TN | \$22.77194 | GR AGGR BASE CRS, INCL MATL | \$14,938.39 |
| 0320 | 402-1802 | 10.000 | TN | \$122.35000 | RECYL AC PATCHING, INCL BM&HL | \$1,223.50 |
| 0315 | 402-1812 | 37.500 | TN | \$65.58000 | RECYL AC LEVELING, INC BM&HL | \$3,246.75 |
| 0005 | 402-3100 | 319.000 | TN | \$92.96247 | REC AC 9.5 MM SP, TPI, GP 1 OR B/L 1 INCL BM&HL | \$29,655.03 |
| 0315 | 402-3121 | 186.000 | TN | \$85.63251 | RECYL AC 25MM SP, GP 1/2, BM&HL | \$16,096.91 |
| 0310 | 402-3190 | 368.000 | TN | \$84.71827 | RECYL AC 19 MM SP, GP 1 OR 2, INC BM&HL | \$31,176.32 |
| 0085 | 413-0750 | 211.000 | GL | \$4.03749 | TACK COAT | \$851.91 |
| 0130 | 432-5010 | 534.000 | SY | \$7.93618 | MILL ASPH CONC PVMT, VARB DEPTH | \$4,237.92 |
| 0150 | 435-1000 | 265.000 | LF | \$13.05044 | ASPH CONC CURB - 5 INCHES | \$3,451.02 |
| 0140 | 455-2015 | 0.305 | GLM | \$4,513.44126 | IDENT. RUMB. STRIPS - GRND-IN-PL (SKIP) | \$1,376.60 |
| 0125 | 632-0003 | 3.000 | EA | \$5,273.97843 | CHANGEABLE MESS SIGN, PORT, TP 3 | \$15,821.94 |
| 0135 | 634-1200 | 26.000 | EA | \$106.21428 | RIGHT OF WAY MARKERS | \$2,761.57 |
| 0090 | 641-1200 | 1133.000 | LF | \$15.63037 | GUARDRAIL, TP W | \$17,935.81 |
| 0095 | 641-5001 | 4.000 | EA | \$709.58670 | GUARDRAIL ANCHORAGE, TP 1 | \$2,838.35 |
| 0100 | 641-5012 | 4.000 | EA | \$1,840.54512 | GUARDRAIL ANCHORAGE, TP 12 | \$7,362.16 |
| SUBTOTAL FOR ROADWAY: | | | | | | \$411,396.03 |

0020 - DRAINAGE

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|------------------------|----------|-----------|-------|---------------|------------------------------|--------------|
| 0155 | 207-0203 | 87.500 | CY | \$45.48094 | FOUND BK FILL MATL, TP II | \$3,980.46 |
| 0190 | 441-0302 | 1.000 | EA | \$1,622.87634 | CONC SPILLWAY, TP 2 | \$1,622.88 |
| 0025 | 500-3101 | 434.000 | CY | \$503.69145 | CLASS A CONCRETE | \$243,853.46 |
| 0030 | 511-1000 | 61869.000 | LB | \$0.63468 | BAR REINF STEEL | \$39,267.02 |
| 0170 | 550-2180 | 96.000 | LF | \$29.63555 | SIDE DR PIPE 18, H 1-10 | \$2,845.01 |
| 0180 | 550-4218 | 5.000 | EA | \$510.90348 | FLARED END SECT 18 IN, ST DR | \$2,554.52 |
| 0175 | 576-1018 | 70.000 | LF | \$40.98319 | SLOPE DRAIN PIPE, 18 IN | \$2,868.82 |
| 0310 | 603-2036 | 61.000 | CY | \$85.05000 | STN DUMPED RIP RAP, TP 1, 36 | \$5,188.66 |
| 0195 | 603-2192 | 48.000 | SY | \$50.35000 | STN DUMPED RIP RAP, TP 3, 24 | \$2,416.80 |
| 0240 | 603-7000 | 109.000 | CY | \$3.02259 | PLASTIC FILTER FABRIC | \$329.46 |
| 0165 | 663-2105 | 1.000 | EA | \$1,614.91304 | DROP INLET, GP 1 | \$1,614.91 |
| SUBTOTAL FOR DRAINAGE: | | | | | | \$306,572.00 |

Processed Date: 2/4/18

DETAILED COST ESTIMATE



Job: 0011677

0030 - EROSION CONTROL

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|--------------------------------------|----------|----------|-------|---------------|---|---------------------|
| 0215 | 163-0232 | 2.700 | AC | \$229.99352 | TEMPORARY GRASSING | \$620.96 |
| 0220 | 163-0240 | 42.100 | TN | \$272.03332 | MULCH | \$11,452.60 |
| 0205 | 163-0300 | 2.000 | EA | \$1,110.87502 | CONSTRUCTION EXIT | \$2,221.75 |
| 0200 | 163-0520 | 665.000 | LF | \$13.48560 | CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN | \$11,665.04 |
| 0075 | 163-0527 | 35.000 | EA | \$244.72736 | CNST:REM RIP RAP CKDM,STN P RIPRAP/IGN BG | \$8,565.46 |
| 0330 | 163-0529 | 1000.000 | LF | \$4.17000 | CNST:REM TEMP SED BAR OR BLD STRW CK DM | \$4,170.00 |
| 0065 | 163-0541 | 11.000 | EA | \$329.36396 | CONSTR & REM ROCK FILTER DAMS | \$3,623.00 |
| 0295 | 163-0542 | 3.000 | EA | \$519.81000 | CONSTR & REM STONE FILTER RING | \$1,559.43 |
| 0285 | 163-0543 | 312.000 | LF | \$41.92000 | CONSTR & REM STONE FILTER BERM | \$13,079.04 |
| 0055 | 165-0030 | 7549.000 | LF | \$0.46358 | MAINT OF TEMP SILT FENCE, TP C | \$3,499.57 |
| 0080 | 165-0041 | 490.000 | LF | \$1.13016 | MAINT OF CHECK DAMS - ALL TYPES | \$553.78 |
| 0335 | 165-0071 | 1000.000 | LF | \$1.62000 | MAINT OF SEDIMENT BARRIER - BALED STRAW | \$1,620.00 |
| 0210 | 165-0101 | 2.000 | EA | \$503.70553 | MAINT OF CONGT EXIT | \$1,007.41 |
| 0070 | 165-0110 | 11.000 | EA | \$124.00448 | MAINT OF ROCK FILTER DAM | \$1,364.05 |
| 0300 | 165-0111 | 3.000 | EA | \$148.35000 | MAINT OF STONE FILTER RING | \$445.05 |
| 0290 | 165-0112 | 312.000 | LF | \$17.76000 | MAINT OF STONE FILTER BERM | \$5,541.12 |
| 0225 | 167-1000 | 3.000 | EA | \$183.47266 | WATER QUALITY MONITORING AND SAMPLING | \$550.42 |
| 0230 | 167-1500 | 9.000 | MO | \$455.26184 | WATER QUALITY INSPECTIONS | \$4,097.36 |
| 0060 | 171-0030 | 7549.000 | LF | \$2.61100 | TEMPORARY SILT FENCE, TYPE C | \$19,710.44 |
| 0235 | 643-9200 | 375.000 | LF | \$1.35790 | BARRIER FENCE (ORANGE), 4 FT | \$512.96 |
| 0245 | 700-6910 | 2.000 | AC | \$812.21910 | PERMANENT GRASSING | \$1,624.44 |
| 0250 | 700-7000 | 6.000 | TN | \$128.26782 | AGRICULTURAL LIME | \$1,026.14 |
| 0255 | 700-8000 | 1.000 | TN | \$521.97461 | FERTILIZER MIXED GRADE | \$521.97 |
| 0260 | 700-8100 | 91.000 | LB | \$2.36992 | FERTILIZER NITROGEN CONTENT | \$215.66 |
| 0265 | 711-0100 | 1722.000 | SY | \$4.04000 | TURF REINFORCING MATTING, TP 1 | \$6,956.88 |
| 0270 | 711-0200 | 728.000 | SY | \$4.15000 | TURF REINFORCING MATTING, TP 2 | \$3,021.20 |
| 0325 | 713-0300 | 710.000 | SY | \$2.00000 | COCONUT FIBER BLANKET, WTRWAYS | \$1,420.00 |
| 0275 | 716-2000 | 2904.000 | SY | \$0.93733 | EROSION CONTROL MATS, SLOPES | \$2,722.01 |
| SUBTOTAL FOR EROSION CONTROL: | | | | | | \$113,367.74 |

0040 - SIGNING AND MARKING

| Line Number | ITEM | QUANTITY | UNITS | PRICE | DESCRIPTION | AMOUNT |
|--|----------|----------|-------|------------|--------------------------------|-------------------|
| 0160 | 636-1036 | 9.000 | SF | \$15.09809 | HWY GGN,TP1MAT,REFL SH TP 11 | \$135.79 |
| 0165 | 636-2070 | 13.000 | LF | \$8.02542 | GALV STEEL POSTS, TP 7 | \$104.33 |
| 0105 | 653-1501 | 1610.000 | LF | \$0.58448 | THERMO SOLID TRAF ST 5 IN, WHI | \$941.01 |
| 0110 | 653-1502 | 1610.000 | LF | \$0.58656 | THERMO SOLID TRAF ST, 5 IN YEL | \$944.35 |
| 0115 | 654-1031 | 22.000 | EA | \$5.59721 | RAISED PVMT MARKERS TP 1 | \$123.14 |
| SUBTOTAL FOR SIGNING AND MARKING: | | | | | | \$2,248.62 |

TOTALS FOR JOB 0011677

Processed Date: 2/4/18

DETAILED COST ESTIMATE



Job: 0011677

| | |
|---|--------------|
| ITEMS COST: | \$633,584.39 |
| COST GROUP COST: | \$0.00 |
| ESTIMATED COST: | \$633,584.39 |
| CONTINGENCY PERCENT: | 0.00 |
| ENGINEERING AND INSPECTION: | 0.00 |
| ESTIMATED COST WITH CONTINGENCY AND E&I: | \$633,584.39 |